# SNAPS Inglewood Oil Field Communities Air Quality Sensors

CALIFORNIA AIR RESOURCES BOARD

## Are you interested in collecting air quality data?

The California Air Resources Board (CARB) is monitoring air quality in neighborhoods near the Inglewood Oil Field (IOF) through the Study of Neighborhood Air near Petroleum Sources (SNAPS). To supplement information gathered through extensive instrumentation at two stationary locations, and as recommended by members of the community, the SNAPS program will provide a limited number of air quality sensors for deployment in neighborhoods near the IOF.

CARB staff will provide a demonstration and training for members of the community who host these air quality sensors. More information on future trainings will be posted on our website once details are available.

Our intention is that all three types of sensors – those that collect information on total volatile organic compounds (tVOCs), black carbon, and meteorology - are collocated at each host site to provide the most meaningful data. However, we are open to discussing opportunities for all interested residents. Information collected through deployment of air quality sensors may be useful in determining future mobile monitoring locations, particularly if sensor concentrations are consistently elevated in certain areas. Sensor data might also help determine where potential emission plumes are originating and can be compared to measurements at the two SNAPS stationary monitoring sites near the IOF. Once deployed, sensor data will be streamed on our website, though exact locations of sensors will not be shared publicly.

Thank you for your interest – we are excited to launch this new phase of the SNAPS program with the community. For more information on the sensors, please refer to the table on the back of this flyer.

***If you are interested or have any questions, please email us at snaps@arb.ca.gov.***

# SNAPS IOF Communities
# Air Quality Sensors

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| Instrument | Davis Instruments Vantage Vue | DST Observair | Aeroqual Ranger |
|---|---|---|---|
| **Parameters** | Temperature, Humidity, Wind speed, Wind Direction, Pressure | Black carbon (some units incl. carbon monoxide, nitrogen dioxide, sulfur dioxide, PM2.5) | Total VOC |
| **Power** | Solar | Solar | Battery (~20hrs) and USB-C |
| **Communication** | Wireless / Radio Frequency communication with WeatherLink station | WiFi / Cellular (unit dependent) | WiFi |
| **Maintenance** | Annual cleaning. Checks only when data or communication issues | Filter change, every 1-4 weeks (depending on conditions), taking less than 5 minutes | None. Checks only when data or communication issues |
| **Comments** | Weatherlink Live console can be stored indoors and requires WiFi and power | Unit will be mounted on a tripod with solar panel installation | Unit will need connection to a power outlet (or USB charging point) |
| **Photo** |  |  |  |
| **Manual Links** | Vantage Vue Manual<br>WeatherLink Live Manual | ObservAir Brochure<br>ObservAir Manual<br>https://www.dstech.io/resources | Ranger Product Sheet<br>Ranger Sensor Specifications |